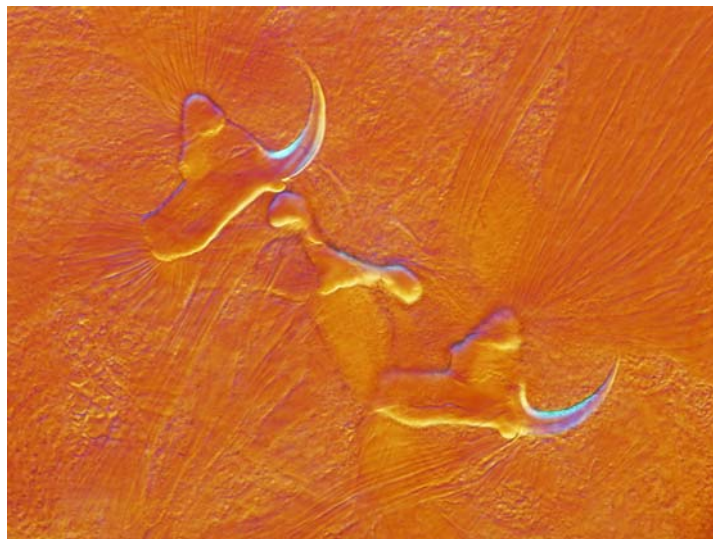


University of South Bohemia in České Budějovice
Faculty of Science



RNDr. Thesis

***TUCUNARELLA* N. GEN. AND OTHER DACTYLOGYRIDS
(MONOGENOIDEA) FROM CICHLID FISH (PERCIFORMES)
FROM PERUVIAN AMAZONIA**



Petra ROZKOŠNÁ

České Budějovice

2010

Rozkošná P., 2010: TUCUNARELLA N. GEN. A JINÍ DAKTYLOGYRIDI (MONOGENOIDEA) Z CICHLIDNÍCH RYB (PERCIFORMES) Z PERUÁNSKÉ AMAZONIE.

Rozkošná P., 2010: TUCUNARELLA N. GEN. AND OTHER DACTYLOGYRIDS (MONOGENOIDEA) FROM CICHLID FISH (PERCIFORMES) FROM PERUVIAN AMAZONIA.

Anotace: Během parazitologického výzkumu cichlidních ryb (*Cichla monoculus* Spix and Agassiz; *Heros severus* Heckel; *Astronotus ocellatus* (Agassiz); *Cichlasoma amazonarum* Kullander and *Satanoperca jurupari* Heckel) z přítoků Amazonky u města Iquitos v Peru bylo nalezeno osm druhů monogeneí.

Annotation: During parasitological research on cichlid fish, *Cichla monoculus* Spix and Agassiz; *Heros severus* Heckel; *Astronotus ocellatus* (Agassiz); *Cichlasoma amazonarum* Kullander and *Satanoperca jurupari* Heckel, from the tributaries of the Amazon River around Iquitos, Peru, eight gill monogenoidean species were found.]

Prohlašuji, že jsem tuto rigorózní práci vypracovala samostatně, pouze s použitím citované literatury.

Prohlašuji, že v souladu s § 47b zákona č. 111/1998 Sb. v platném znění souhlasím se zveřejněním své rigorózní práce, a to v úpravě vzniklé vypuštěním vyznačených částí archivovaných Přírodovědeckou fakultou elektronickou cestou ve veřejně přístupné části databáze STAG provozované Jihočeskou univerzitou v Českých Budějovicích na jejich internetových stránkách.

V Českých Budějovicích, dne 30. 4. 2010

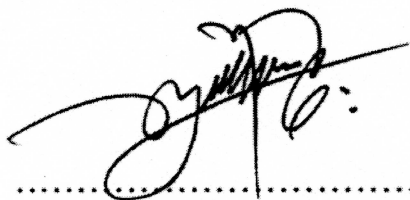
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Petra Rozkošná

Author agreement

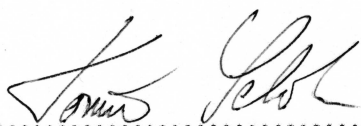
Manuscript title: TUCUNARELLA N. GEN. AND OTHER DACTYLOGYRIDS (MONOGENOIDEA) FROM CICHLID FISH (PERCIFORMES) FROM PERUVIAN AMAZONIA.

Authors: Edgar F. Mendoza-Franco, T. Scholz a P. Rozkošná.

We, the undersigned, confirm that Petra Rozkošná contributed substantially to this publication.



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Edgar F. Mendoza-Franco, PhD.



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Prof. RNDr. Tomáš Scholz, CSc

Abstract: During parasitological research on cichlid fish from the tributaries of the Amazon River around Iquitos, Peru, the following gill monogenoidean species were found: *Tucunarella cichlae* n. gen. and n. sp. from *Cichla monoculus* Spix and Agassiz; *Gussevia alioides* Kritsky, Thatcher, and Boeger, 1986 from *Heros severus* Heckel; *Gussevia asota* Kritsky, Thatcher, and Boeger, 1989 from *Astronotus ocellatus* (Agassiz); *Gussevia disparoides* Kritsky, Thatcher, and Boeger, 1986 from *H. severus* (all new geographical records) and *Cichlasoma amazonarum* Kullander (new host record); *Gussevia longihaptor* (Mizelle and Kritsky, 1969) Kritsky, Thatcher, and Boeger, 1986 and *Gussevia undulata* Kritsky, Thatcher, and Boeger, 1986 from *C. monoculus*; *Sciadicleithrum satanopercae* Yamada, Takemoto, Bellay, and Pavanelli, 2008 from *Satanoperca jurupari* Heckel; and *Sciadicleithrum variabilum* (Mizelle and Kritsky, 1969) Kritsky, Thatcher, and Boeger, 1989 from *C. amazonarum* (new host and geographical records). *Tucunarella* n. gen. is proposed to accommodate a new species, *Tucunarella cichlae*, which is its type and only known species in the genus. The new genus is characterized by, besides a very large body size (about 1.5 mm vs. much less than 1 mm in other ancycrocephaline genera in Amazonia), a thickened tegument, 1 pair of eyes, overlapping gonads (testis dorsal to the germarium), nonarticulated male copulatory organ (MCO) and accessory piece, a coiled (counterclockwise) MCO, a dextral vaginal aperture, a haptor armed with 2 pairs of anchors (each with broad base and subequal roots, which are marginally folded), and dorsal and ventral bars and 14 hooks with protruding blunt thumbs and 2 different shapes (slender vs. slightly expanded shanks). Illustrations and data on morphological and biometric variability of individual species from different hosts are provided. The present data provide evidence of a relatively wide host specificity of gill monogenoideans parasitic in South American cichlids.